

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P495757

Luminaire Tested: **LDA2B109027R35D010 2LBD1MMS-30DEG TILT**

Issue Date: 3/8/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P495757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/8/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDA2B109027R35D010 2LBD1MMS-30DEG TILT
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

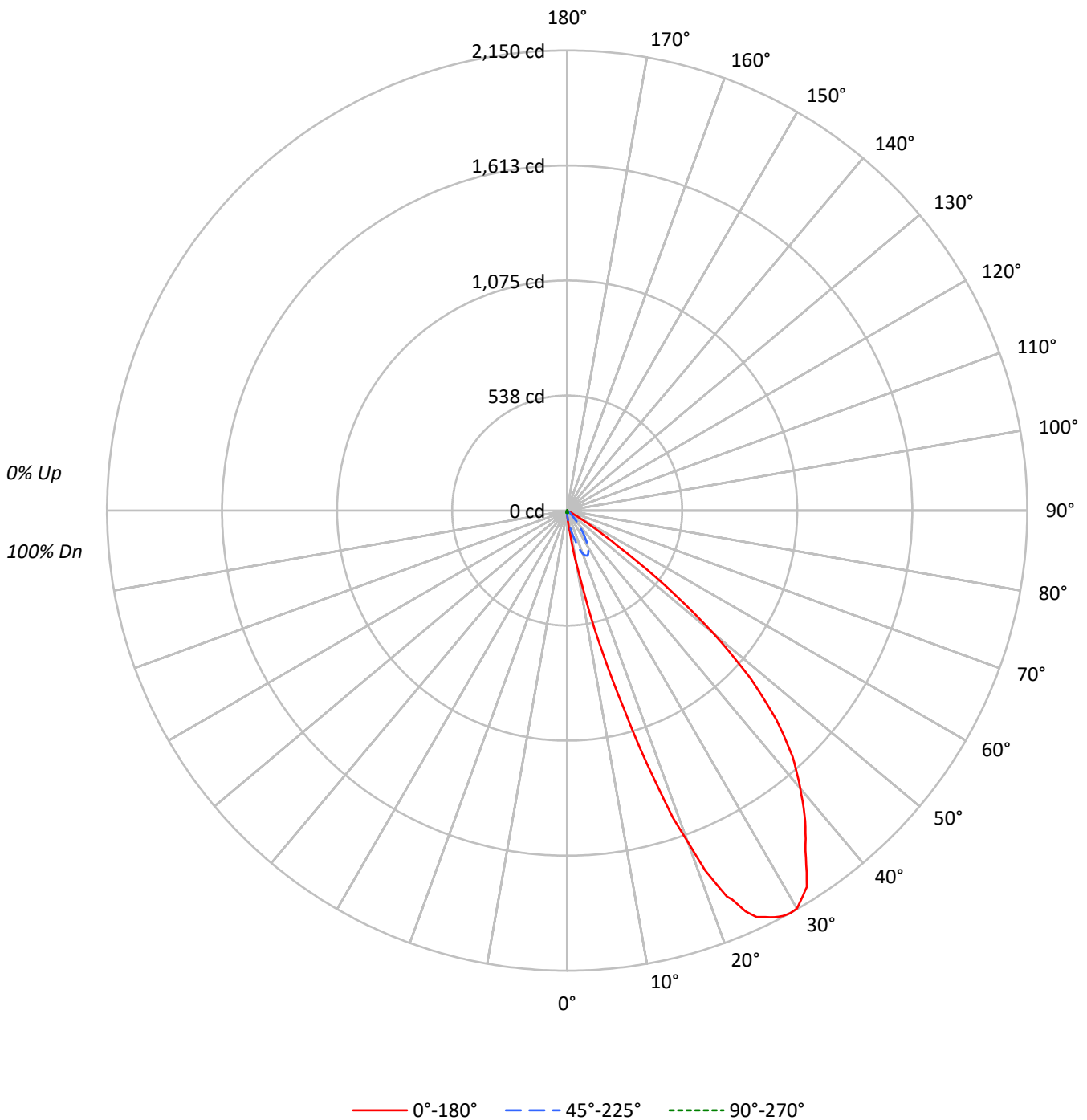
Lumens per Lamp: N/A
Luminaire Lumens: 580.3 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 3.16 / 0.51 / 1.46
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	104	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63					63			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	77	66	58	53	76	65	58	52	63	57	52	62	56	52	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44					44			
8	67	54	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39					39			
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35					35			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9670	9670	9670
5°	30359	8518	5250
10°	129501	7164	3908
15°	418470	5210	3116
20°	862458	3203	2153
25°	1140389	1579	1361
30°	1223171	684	684
35°	1168972	482	241
40°	1091387	258	0
45°	964596	0	0
50°	684948	307	0
55°	245573	344	0
60°	37890	789	0
65°	1868	934	0
70°	0	1154	0
75°	0	1525	762
80°	0	2273	0
85°	0	4529	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.6
10°-20°	47.0	8.1
20°-30°	157.2	27.1
30°-40°	198.0	34.1
40°-50°	140.1	24.1
50°-60°	32.3	5.6
60°-70°	1.0	0.2
70°-80°	0.6	0.1
80°-90°	0.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	207.6	35.8
0°-40°	405.6	69.9
0°-60°	578.0	99.6
0°-90°	580.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	61	40	17	12	11	11
15°	819	145	10	7	6	270
25°	2095	229	3	3	2	944
35°	1941	134	1	1	0	1215
45°	1382	33	0	0	0	1037
55°	286	2	0	0	0	323
65°	2	0	1	1	0	6
75°	0	1	1	1	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
1°	24.5	23.7	22.5	20.4	18.4	17.6	17.6	16.3	16.3
2°	29.4	28.2	25.7	21.6	18.4	16.3	15.5	14.7	14.3
3°	38.0	34.7	29.4	23.3	18.0	15.5	15.1	13.1	13.1
4°	47.4	44.1	33.9	24.5	17.6	14.7	13.1	12.3	11.8
5°	61.3	53.9	40.0	25.7	17.2	13.9	12.3	11.0	10.6
6°	79.2	69.0	45.7	27.0	16.7	13.1	11.4	10.2	9.8
7°	99.7	85.8	52.7	28.2	15.9	12.3	10.6	9.8	9.4
8°	143.0	110.3	60.9	29.0	15.5	11.4	10.2	9.0	8.6
9°	191.1	142.5	69.8	30.2	14.7	11.0	9.4	8.6	8.2
10°	258.5	186.7	80.1	31.0	14.3	10.2	8.6	8.2	7.8
11°	325.5	241.4	92.7	31.4	13.5	9.0	8.6	8.2	7.8
12°	435.8	293.7	103.7	31.4	12.7	8.6	7.8	7.4	6.9
13°	566.5	383.5	119.7	31.9	11.4	8.2	7.4	6.9	6.9
14°	681.7	464.0	130.3	31.9	11.0	7.4	6.9	6.9	6.5
15°	819.3	542.4	144.6	31.4	10.2	6.9	6.9	6.5	6.1
16°	963.5	660.0	163.8	30.6	9.4	6.1	6.5	5.7	5.3
17°	1154.6	757.2	178.5	29.8	8.6	5.7	5.7	5.7	5.3
18°	1329.5	875.3	190.3	29.0	7.8	5.7	5.3	5.3	4.9
19°	1516.9	970.0	202.2	27.8	6.9	4.9	4.9	4.9	4.5
20°	1642.7	1086.4	215.2	26.5	6.1	4.5	4.9	4.5	4.1
21°	1802.0	1190.6	220.1	25.3	5.3	4.1	4.1	4.1	3.7
22.5°	1951.1	1329.0	227.9	22.9	4.5	3.3	3.7	3.3	3.3
23°	1974.0	1358.5	227.9	22.1	4.1	3.3	3.7	3.3	3.3
24°	2049.9	1438.9	230.8	20.4	3.3	2.9	3.3	2.9	2.9
25°	2094.9	1502.6	228.7	18.8	2.9	2.9	2.9	2.9	2.5
26°	2113.2	1520.2	223.8	17.6	2.5	2.5	2.9	2.5	2.0
27°	2132.4	1560.2	217.7	15.9	2.0	2.5	2.5	2.5	2.0
28°	2145.9	1565.1	211.6	14.7	1.6	2.0	2.5	2.0	2.0
29°	2150.4	1571.7	204.2	13.1	1.2	1.6	2.0	1.6	1.6
30°	2147.1	1570.4	193.6	11.8	1.2	1.6	1.6	1.6	1.2
32.5°	2084.6	1535.3	164.2	8.6	0.8	1.2	1.2	1.2	0.8
35°	1940.9	1454.4	134.0	5.7	0.8	0.8	0.8	0.8	0.4
37.5°	1827.3	1333.5	102.5	3.3	0.4	0.8	0.8	0.4	0.0
40°	1694.6	1158.3	73.9	2.0	0.4	0.4	0.4	0.0	0.0
42.5°	1559.8	979.8	50.2	0.8	0.0	0.4	0.4	0.0	0.0
45°	1382.5	750.3	33.1	0.4	0.0	0.4	0.0	0.0	0.0
47.5°	1162.8	544.9	22.5	0.0	0.0	0.4	0.0	0.0	0.0
50°	892.4	305.1	12.7	0.0	0.4	0.4	0.4	0.0	0.0
52.5°	588.1	152.3	4.9	0.0	0.4	0.4	0.4	0.0	0.0
55°	285.5	81.7	1.6	0.4	0.4	0.8	0.4	0.0	0.0
57.5°	134.8	31.9	0.4	0.4	0.8	0.8	0.4	0.0	0.0
60°	38.4	6.5	0.4	0.4	0.8	0.8	0.4	0.4	0.0
62.5°	5.3	0.8	0.4	0.8	0.8	0.8	0.8	0.4	0.0
65°	1.6	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
70°	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.4	0.0
72.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
75°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4
77.5°	0.0	0.4	0.8	0.8	1.2	0.8	0.8	0.4	0.0
80°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
82.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
85°	0.0	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.0
87.5°	0.0	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)